

⁷~~65~~. (New) The circuit of claim ¹~~59~~, further comprising an analog-to-digital converter coupled to outputs of the inverting and non-inverting circuits for generating a digital signal based upon the outputs.

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⁸~~66~~. (New) The circuit of claim ⁷~~65~~, wherein the control circuit monitors the digital signal and applies the control signals to the switching devices to maintain the digital signal within a desired range.

⁹~~67~~. (New) The circuit of claim ¹~~59~~, wherein the input resistance of the inverting circuit is a fixed resistance.

¹⁰~~68~~. (New) The circuit of claim ¹~~59~~, wherein the feedback resistance of the non-inverting circuit is a fixed resistance.

¹¹~~69~~. (New) The circuit of claim ¹~~59~~, wherein the feedback resistance circuit is configured to selectively place the plurality of first resistances in parallel with one another, and the input resistance circuit is configured to selectively place the plurality of second resistances in series with one another.

REMARKS

At the time of the present Official Action, claim 1 was pending in the present Application, with claim 1 being rejected. By this response, claim 1 is canceled without prejudice and new claims 32-69 have been added. Upon entry of this Amendment, claims 32-69 will be pending in the present Application.

Status

On the office action summary, the Examiner checked box 2(b) indicating the action is non-final. Applicants are responding to the Official Action under the assumption that the action is indeed non-final. There is some discrepancy as to the status of the Action as the Examiner stated in the body of the official action that action was

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made final. However, in an informal telephonic interview held with the undersigned on June 8, 2001, Examiner Jeanglaude confirmed the non-final status of the Office Action.

Double Patenting

The Examiner rejected claim 1 under 35 U.S.C. 101. Applicant has requested that claim 1 be cancelled. Per the Examiner's comments in the Official Action, such cancellation should be sufficient to overcome the Examiner's rejection.

New Claims

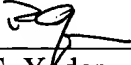
The new claims have been added to provide alternative scope and to more clearly and distinctly point out aspects of the invention.

Conclusion

In view of the remarks and amendments set forth above, Applicant respectfully request allowance of claims 32-69. If the Examiner believes that a telephonic interview will help speed this application toward issuance, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

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